

THE BUILDER.

PALMER'S PATENTED PROCESS for
reducing or enlarging Paintings, Prints, Sculpture, De-
corations on Glass, Metallic Objects, copying Landscapes,
miniatures, Portraits, &c. &c. and printing the same with the
best accuracy and fidelity, either by the artist or amateurs.—
ELLIOTT and SONN, 36, Strand, London, Sole Agents for the
United Kingdom, which may be seen daily from twelve to six.

PLUMBERS and BUILDERS supplied with
CAST and MILLED LEAD in sheets, or cut to dimensions,
 and **Flange Pipe Lead, Trap and Service Boxes**, at whole-
 sale prices.
WILLIAM DENT, 2, NEWCASTLE STREET,
 MANUFACTURER OF **Engine Pumps, Water-closets, and**
all descriptions of Plumbers' Brasswork. The Registered Urinal
 has been selling at the reduced price of 17s. 6d. and the
 according to colour and fittings. Also an Earthenware and
 Bath of improved construction.

CAEN STONE at LIVERPOOL.—Thirty blocks of the best seasoned ALLEMAIGNE STONE, averaging 15 cubic feet each, are ON SALE at Messrs. INGHAM and CLARKE'S Marble-yard, Liverpool, of whom particulars may be obtained.

TO BUILDERS, MASON, AND OTHERS
BUILDERS, MASONS, and others are informed
they can now be supplied with YORK BLOCK, SAWN
STEEL, PLANK, &c. at unprecedented prices, from the Com
pany, Bathurst St.

YORK-WHARF, KENSINGTON-BASIN, and GRAVELLANE, SOUTHWARK.—Superior TWO-INCH ROLLED HARD YORK PAVING, at 8s. per 100 feet.—W. H. RUGDEN respectfully calls the attention of builders, architects, and others, to his extensive stock of York Paving, of all descriptions.—N.B. Cash price on the wharf.

YORKSHIRE FAIRHEAD BRAMLEY FALL
QUARRIES—This Stone, of superior quality, can now be supplied at a very low price, in consequence of the reduced charges of carriage. Carriage shipped direct from the quarries to London and all parts of the coast.—For application of prices, apply to Mr. NEWELL, Groomston, near Whistly, Yorkshire: or to Mr. J. H. CLARK (London Agent), Devon Bazaar Wharf, Rotherhithe, London.

TO CONTRACTORS, BUILDERS, AND OTHERS.
TO BE DISPOSED OF CHEAP, about 1,000
 tons of New Bremen Fall and other STONE in random
 sizes: also a few thousand feet of coping, 1 ft. 6 in. by 6 in.
 The above quantities are all of the best quality and delivered
 at the lowest prices to any port countries with immediate delivery. For
 more further particulars apply by letter or otherwise to MR.
 HURSTMAN, 68, Saint Thomas Street, Borough, London.

BATH STONE OF BEST QUALITY.
RANDELL and SAUNDERS,
 QUARRYMEN and STONE-MERCHANTS.

BATH	
(DEPOTS)	
Great Western Railway Station....	PADDINGTON.
Great Western Railway Station....	BRISTOL.
Hope-street, Mount Pleasant	LIVERPOOL.
Castle-Fields	MANCHESTER.

List of prices at the quarries and depots, also cost for transit to any part of the kingdom, furnished on application.

MARKET WHARF, REGENT'S PARK
 MR. RAHIN - MARTIN and WOOD call the attention of Builders, Masons, and others, to their stock of Portland, Best and Verber Stone; also Hammer Blasts, Lima Cement, Tark, Bricks, Tiles, Laths, Fire-bricks, Fire-stones, &c. sold at the lowest possible prices for Cash. Portland Head stones, Long-run Landings, &c. put to order on the shortest notice. Turpentine, and all kinds of a North of Northern's Dregins Free, prompt delivery on hand. Mortar, Lime, and Hair, Fine Sand &c. Prompt supplies paid to country orders.

CORSHAM-DOWN, and other **BATH** and **FAIRWICK STONE**.—**MARTIN** and **WOOD** beg to inform their Friends and the Building Trade generally, that all Orders and Inquiries for the above Stone will be promptly attended to by being addressed to **MARKET-WHARF, REGENT-PARK-RABIN.**

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TERRA COTTA and SCAGLIOLA
manufactured by J. M. BLOSWICK, Mill Wall, Is-
le of Man, sold at No. 1 Wharf, Piccadilly, Paddington.
Terra cotta, fountains, capitals, coats of arms, chimney shafts,
furnace pots, and all ornamental work required to stand
out from either the surface or changing colour, may be had at
least the same cost as casting in concrete.
Terra cotta is more durable than iron, granite, marble, or stone.
It may be made of black, red, and light cream colours of every
shade.
It can be more undercut and delicately wrought than either
stone or iron, and architects can have their own designs modelled
and tried in this material, and the saving and the chance of
error from the hands of the artist.

PRIZE MEDAL for TERRA-COTTA to
M. H. BLANCHARD, late of Camde's Original Works,
 being awarded for quality of Material and Workmanship.
M. H. B. begs to solicit the attention of the Nobility, Gentry,
 and the Public, to this valuable and imperishable
 material that has been and is now adopted by our eminent Architects
 and others in the adornment of our noblest buildings, and
 being applicable to groups, statues, fountains, capitals, pinnacles,
 chimneys, terminals, Tudor and other chimney-pieces, balustrading,
 columns, vases, basins, vases, coats of arms, devices, ornamental
 tiles, and every description of Architectural embellishment, as
 well as for every competition.
 Works, Kings, and the Westminsters, London.

PAVING, 2s. 9d. per SQUARE YARD.—
Pavements, Foot-walks, Mail-houses, Corn Mlons, Floors
of Wareh and every description of Pavement laid down at
the above price, and the work guaranteed.—Apply to JOHN
FILKINGTON, POLOSCHEAU BITUMEN PAVEMENT
OFFICE, MONUMENT CHAMBERS, 14, FISH STREET
HILL.—N.B. Country Agents and Railway Engineers and
Contractors supplied with the best bitumen for covering bridges and
arches.

PAVING, 32s., Superior, 38s., and Large thick
 Paving, etc. to 40s. per 100 feet. Sinking, etc. per foot. Kille,
 etc. etc. etc. Hare-hill, Robin Hood, etc. etc. All goods
 best quality, and at lowest trade prices. In stone paving
 large discount off the usual list. Clay pipes, chimney pots,
 etc. etc. etc. Builders and Masons are invited to inspect
 country builders supplied with a list of prices free on application.
 E and W. 57 CROOK, Bridge Wharf, City-road. Established 1840.

ASPHALTE.—GERVASE FOOTIT, Trinidad.
Asphaltic Works, Rotherhithe, established 1854. Every description of Flooring laid with the above durable material in the best manner. Acknowledged by eminent engineers and architects to be superior to the article called "Macadam," and at half the price. Importer of Trinidad asphalt.

STIRLING'S BELVEDERE SLATE WORKS,
 10, Victoria-road, Lambeth.—A reduced list of prices of the
 best **WELSH SLATE SLABS**, planned both faces, will be sent on
 application (post paid) being made, and enclosing a postage stamp.
 The prices are under those advertised for inferior slates.

THE PIMLICO SLATE WORKS.

VALENTINE SLATE SLABS.—The Valentine Slate Company invite attention to their slabs now supplied of very large dimensions and of superior quality. They have been used at the British Museum, National Gallery, Bodleian, Liverpool, various lunatic asylums, the Ordnance Works, Royal Prussia, Portsmouth, the walls of the Admiralty, Marine Force, Newcastle, and Northcliffe, Newcastle, the Race Mound at Brighton, Portsmouth Barracks, and are kept in stock in large quantities of Freeman's Wharf, Millbank-street; also by Messrs. PHARRE & CO., Ltd., 10, Abchurch-lane, and Messrs. HEALY, Ltd., 10, Victoria-road, where orders may be sent.

MARBLE.—Mr. J. FABBRICOTTI, Proprietor of Marble Quarries at Carrara, Italy, begs to inform the Gentlemen connected with the Marble Trade, that he has established in London the most extensive Depot in the United Kingdom of STATUARY Veneered, Scaled, Lown, and Black and Gold MARBLES, the produce of his own Quarries.

CANNARA WHARF.—Thames bank, Finsbury, at the foot of Vauxhall bridge. Close to a Quayside, Millbank.

MR. THOS. THOMSON, Agent.

Medieval Works,
Memorials,
Fonts, Screens, etc.

AT A VERY ECONOMICAL RATE.
SAMUEL CUNDY, Mason and Builder,
 PINNOC MARBLE and STONE WORKS, Begrave
 Wharf, Lower Begrave-place, Pinnoc
 MARBLE CHIMNEY-PIECES manufactured by improved
 machinery. The public are invited to view the stock, unequalled
 for quality and price.

A GOOD MARBLE CHIMNEY-PIECE FOR FORTY SHILLINGS.
A liberal discount to the Trade.
MARBLE WORK in all its branches, at a remarkably cheap rate, for **HALLS, DAIRIES, LARDERS, &c. &c.**
Circulars sent on application.
H.B. The "Royal Blue" Granite from the Works every ten minutes from the Bank.

**TO ARCHITECTS, SCULPTORS, BUILDERS,
STONE AND MARBLE MASONRY, &c. &c. ALABASTER
QUARRIES, CHILLSTON, near DRELY, -**Alabaster in blocks
of almost any size, and of very superior quality, may now be ob-
tained from these quarries on application to
**Messrs. JOSEPH SMITH and SONS,
HORNINGLOW near RUMSTON, LANC.**

This stone was extensively used during the Middle Ages as Monuments and other Ecclesiastical decorations, and since that period until now has not been surpassed in blocks of any size. Its colour is white, and beautifully variegated. It is easily worked, and capable of taking a high polish, which renders it suitable for every kind of lateral House decoration.

Agents in London, Mr. WILLIAM FIELD, 21, Holywell-street, Billbank; Dept. St. Wharf, Paddington, where a stock is always on hand.

RANDELL AND SAUNDERS
FOR THE
IMPROVED MANUFACTURE
OF
BRICKS, TILES, AND

In this machine are contained the two objects on long enough to remain so long as the clay is supplied to the machine, and a person without interfering with its progress.

The clay, in a rough state, is thrown upon the covers by the person who feeds the machine. The force is so laid a channel for the clay is allowed to pass through it, and it is obvious that this is so, and this opening can be made of the form required to make the object.

Where it is necessary to give the ends of the bricks a corrugated surface, this handle revolves with the cylinder, and it is in the shape of a screw, and the handle is turned by the person who feeds the machine. This arrangement makes a drain of much greater strength than the one in the machine.

The machine is self-acting—the alternators have merely to put out power. When worked with two-horse power, the machine will produce 100 watts of electricity, and a larger model obtained 1,000 watts. The machine is the simplest of its kind in its construction, and is easy to use. It is made in two sizes, one for use in the home and the other for use in the workshop. The machine is made in two sizes, one for use in the home and the other for use in the workshop. The machine is made in two sizes, one for use in the home and the other for use in the workshop.

For price and further particulars apply to RANDALL and SONS, Ltd., 10, Abchurch Lane, London, E.C. 4, or to STOTHERT, RAYNO, and PITT, Engineers, Derby.

PAN TILES, 48¢ per 1000; PLAIN 48¢ per 1000; **VINE BRICKS, 48¢ per 1000.**
 Henderson's Pan Tiles and Bricks are just offering these 4 1/2" x 8" Tiles (being altered to make a diamond-shaped alteration in their center) of very moderate prices. **Bricks** 4 1/2" x 8" x 2 1/2" in size, made of a soft, strong, superior, 10 million of a year's exposure, at a very low price. Bricks and Tiles.

HOOPER'S WHITE BRICKS, moulded for
 to be put for that use; having the of several patterns in white
 and blue; also having and Ridge Tiles coloured brown
 or slate; and also having the for making the same sent to
 all parts of the country direct from the kilns—On S. Portland
 street, Northampton, where samples and illustrated prospectus may
 be had on application, post paid.

WHITE SUFFOLK and RED FACING
BRICKS of superior quality. Moulded Bricks to any pattern.

COWLEY, KENT, and BUCK BRICKS; also Yellow and
Pale Blue, Beadman, Queens, Parrots, Flippers, &c. &c.
KENTIAN RAG STONE of the finest quality, and of the blue
tint so much approved by architects, and of the blue
further and CONSIDERABLE REDUCTIONS IN PRICE.
Apply to Mr. BENJAMIN COOKE, F. Derington-cumant,
Newington Butts

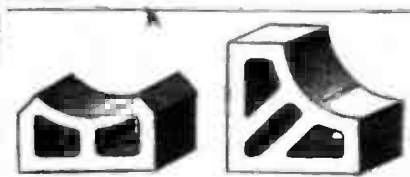
BRICKS of the first quality at the lowest possible price for cash to be had at **A. SHENDE'S** Warehouse, Shipping Street, Dublin, Westmoreland. **A. SHENDE** to acquaint the public that having taken the above premises, he will have constantly for sale a large quantity of Bricks, &c. Red Facing bricks, black hearth, and moulded bricks to any pattern. Orders addressed as above, or to his brickfield, Bellingbourne, West, will meet with prompt attention.

BRICKS.—H. DODD is enabled to offer his BRICKS, which are of good quality, at the following low prices; and as his stock are only a quarter of an hour's walk from the City, H. D. earnestly requests purchasers will favour him with a visit, in order to inspect his stock and to judge for themselves.

Maric centers	Doz. Per Thousand
Yellowmonds	80a.
Palemonds	80a.
Pavers	30a.
Pelicans	30a.

Detritus within the river

Maric bones, half-rotted sticks and pieces broken at right angles to grain. These bricks are round, well burnt, and abundantly present in the river bed. They are not so common in the river bed as for external things—Apples, ENNY (1911) and OU are the commonest bones. Horner, N. A. and C. G. Smith found, near the River mouth, a large number of bones, some of which were not commonly found, upon numerous farms. This sand, from the fact of containing many small marine, is acknowledged to be preferable to river sand.



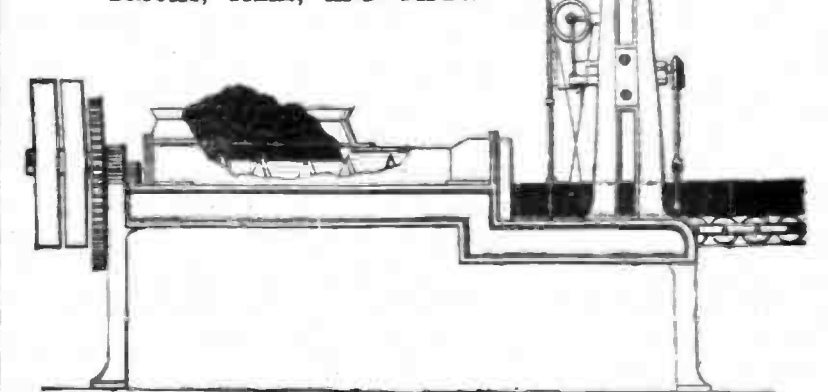
Bricks for Road Courses. Bricks for Stretcher Courses.

MOON'S PATENT HOLLOW CHIMNEY
 BRICKS, for Circular Flues, 10 inches diameter; strong
 and fire-proof. Chimney Building—Particularly to be had of
 Mr. H. MOON, 11, CLYDE, the Great Western and South
 Makers. At this Works, Upper Plymouth, Devonshire, London.

The Bricks to be had at the following places, viz.—

Northampton, Harris	Makers
King's-Cross, London	Warren and Matthews
Reading, Haines	W. J. Whitbread and Co.
Leighton, Leach	Henry Holland
Swansea, South Wales	
For a List of Agents	
See the "Chronicle"	

RANDELL AND SAUNDERS'S PATENT MACHINE
 FOR THE
IMPROVED MANUFACTURE
 OF
BRICKS, TILES, AND PIPES.



In this machine are combined the two objects so long sought in brick machines—a press which forces the clay through a die without compression so long as the clay is supplied to the machine, and a pyramidal self-setting cutter, which serves the clay the required length without interfering with its progress.

The clay, in a rough state, is fed upon the screw by the power cylinder in all the machine; the screw, in revolving, thoroughly mixes the clay, and also force it forwards into a chamber at the other end, and the cylinder in which they revolve; from this chamber the clay is allowed to issue through a die, and it is obvious that the stream of clay must take the form of the opening through which it issues, and this opening can be made of the form required to make bricks, pipe, and other descriptions of ware.

When it is necessary to give the ends of the bricks a soft rounded shape, this can be done by attaching a knife to the cylinder of the roller; this knife revolves with the cylinder, and it makes the shape required for the ends of the bricks which form it impart to the bricks in cutting them. This arrangement is adapted for making Messrs. SANDWELL and SAUNDERS Patent Plain Bricks, for square purpose, which make a drain of much greater strength than the common or ordinary pipes, and at the last cost.

The machine is self-feeding; the attendants have merely to put in the clay, and remove the bricks, or other ware, which may be produced.

When worked with two-horse power, the machine will produce 1,200 bricks, or 1,500 3-inch pipes, per hour; more power can be applied if desirable, and a larger result obtained.

The screws propel the clay without taking air in with it; so that the ware comes out free from the imperfections which are so often seen in the ware produced by piston presses; and the loss so generally incurred by waste in burning, from the expansion of the air

The moderate price of this machine, and the simplicity of its construction, place it within the reach of almost every person in the trade, both as to cost and use. It not only lessens the cost of labour required in the process of brick making, but, as the clay can be used in a much drier state than it can be when moulded by the hand, the time occupied in drying is much less; and, when hollow bricks are made, a material saving is effected in the cost of manure and burning. In consequence of the great compression given to the clay in the transit, ware of very superior quality is produced.

For price and further particulars apply to **RANDELL and SAUNDERS**, Bath; **CHARLES JOHN CARR** and **CO.**, Engineers, Bristol, Derby; **STOTHERT, KAYE, and PITT**, Engineers, Bath; or to **POWELL and FAY**, Engineers, Bristol.